

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK		ATTY. DOCKET NO.	SERIAL NO.
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INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		APPLICANT		OPPE FEB 07 2000 P A T E N T T R A D E M A R K O F F I C E	
		Brasel et al.		FILING DATE	GROUP
		September 17, 1998		1644	

U.S. PATENT DOCUMENTS

EXAMINER		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
M		4,745,099	05/17/88	Akamatsu et al.			
		5,013,824	05/07/91	Abrams et al.			
		5,057,420	10/15/91	Massey, Joseph M.			
		5,061,620	10/29/91	Tsukamoto et al.			
		5,114,710	05/19/92	Takaku et al.			
		5,116,964	5/26/92	Capon et al.			
		5,185,438	02/09/93	Lemischka, Ihor R.			
		5,192,553	03/9/93	Boyse et al.			
		5,199,942	04/6/93	Gillis, Steven			
M		5,270,458	12/14/93	Lemischka, Ihor R.			

FOREIGN PATENT DOCUMENTS

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M		WO 92/18615	10/29/92	PCT			
		WO 93/08268	04/29/93	PCT			
		2,163,105	05/18/94	CA			
R		0 627 487 A2	05/19/94	EP			

OTHER DOCUMENTS (*Including Author, Title, Date, Pertinent Pages, Etc.*)

EXAMINER	Stanley, E. R. et al., "CSF-1-A Mononuclear Phagocyte Lineage-Specific Hemopoietic Growth Factor," <i>J. Cell. Bio.</i> 21:151-159, 1983.
	Y. Yarden and A. Ullrich, "Growth Factor Receptor Tyrosine Kinases," <i>Ann. Rev. Biochem.</i> 57:443-478, 1988.

EXAMINER *GAW/2 2/14/00* DATE CONSIDERED

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EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
M	5,283,354	02/01/94	Lemischka, Ihor R.			
	5,326,558	07/05/94	Turner et al.			
	5,367,057	11/22/94	Lemischka, Ihor R.			
	5,397,706	03/14/95	Correa et al.			
	5,399,493	03/21/95	Emerson et al.			
	5,437,994	08/01/95	Emerson et al.			
	5,453,357	09/26/95	Hogan, Brigid L. M.			
	5,459,069	10/17/95	Palsson et al.			
	5,525,708	06/11/96	Nocka et al.			
	5,548,065	08/20/96	Lemischka, Ihor R.			
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	WO 94/26891	11/24/94	PCT			
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M	J. G. Flanagan and P. Leder, "The kit Ligand: A Cell Surface Molecule Altered in Steel Mutant Fibroblasts," <i>Cell</i> 63:185-194, 1990.
M	D. Cadena and G. Gill, "Receptor tyrosine kinases," <i>FASEB</i> 6:2332-2337, 1992.

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EXAMINER		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
M		5,843,423	12/01/98	Lyman et al.			
M		5,627,025	05/06/97	Steinman et al.			
M		5,635,388	06/03/97	Bennett et al.			
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M	-	WO 93/20186	10/14/93	PCT			
M	-	0 563 485 A1	03/30/92	EP			
M	-	WO 96/00779	01/11/96	PCT			
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M	-	Matthews, W. et al., "A Receptor Tyrosine Kinase Specific to Hematopoietic Stem and Progenitor Cell-Enriched Populations," <i>Cell</i> 65:1143-1152, 1991.					
M	✓	Lyman, S. D. et al., "Characterization of the protein encoded by the flt3 (flk2) receptor-like tyrosine kinase gene," <i>Ocogene</i> 8:815-822, 1993.					
M	✓	Rosnet, O. et al., "Isolation and Chromosomal Localization of a Novel FMS-like Tyrosine Kinase Gene," <i>Genomics</i> 9:380-385, 1991.					
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✓ Lyman, Stewart D. et al., "Molecular Cloning of a Ligand for the flt3/flk-2 Tyrosine Kinase Receptor: A Proliferative Factor for Primitive Hematopoietic Cells," *Cell* 75:1157-1167, 1993.

✓ Maroc, N. et al., "Biochemical characterization and analysis of the transforming potential of the FLT3/FLK2 receptor tyrosine kinase," *Oncogene* 8:909-918, 1993.

✓ Birg, F. et al., "Expression of the *FMS/KIT*-Like Gene *FLT3* in Human Acute Leukemias of the Myeloid and Lymphoid Lineages," *Blood* 80 (10):2584-2593, 1992.

✓ Dosi, M. et al, "Mitogenic Signalling and Substrate Specificity of the Flk2/Flt3 Receptor Tyrosine Kinase in Fibroblasts and Interleukin 3-Dependent Hematopoietic Cells," *Mol. And Cell. Biol.* 13(10):6572-6585 1993.

✓ Hannum, C. et al., "Ligand for FLT3/FLK2 receptor tyrosine kinase regulates growth of haematopoietic stem cells and is encoded by variant RNAs," *Nature* 368:643-648, 1994.

✓ Broxmeyer, H. E. et al., "Commentary: A Rapid Proliferation Assay for Unknown Co-Stimulating Factors in Cord Blood Plasma Possibly Involved in Enhancement of In Vitro Expansion and Replating Capacity of Human Hematopoietic Stem/Progenitor Cells," *Blood Cells* 20:492-497, 1994.

✓ de Vries, P. et al., "The Effect of the FLT3 Ligand On Purified Murine Pluripotent Hematopoietic Stem Cells," *J. of Cell. Biochem. Suppl.* 18b:177, abstract #H110, 1994.

✓ Rossner, M. T. et al., "Fms-like Tyrosine Kinase 3 Catalytic Domain Can Transduce a Proliferative Signal in FDC-P1 Cells That is Qualitatively Similar to the Signal Delivered by c-Fms¹," *Cell Growth & Differentiation* 5 :549-555, 1994.

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✓ Stewart, F. M. et al., "Post-5-Fluorouracil Human Marrow: Stem Cell Characteristics and Renewal Properties After Autologous Marrow Transplantation," *Blood* 81(9):2283-2289, 1993.

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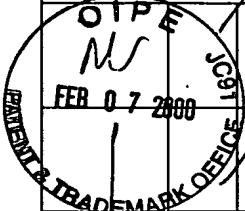
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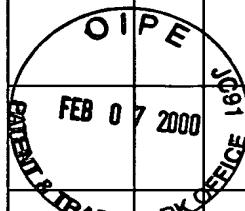
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<i>O I P E</i> FEB 07 2000 <i>M</i>	/	Bernhard, H. et al., "Generation of Immunostimulatory Dendritic Cells from Human CD34+ Hematopoietic Progenitor Cells of the Bone Marrow and Peripheral Blood," <i>Cancer Res.</i> 55:1099-1104, 1995.			
<i>PATENT TRADEMARK OFFICE</i> <i>M</i>	/	Chatterjee, M. et al., "Idiotypic antibody immunotherapy of cancer," <i>Cancer Immunol. Immunotherap.</i> 38:75-82. 1994.			
<i>M</i>	/	Boon, T., "Toward a Genetic Analysis of Tumor Rejection Antigens," <i>Adv. Cancer Res.</i> 58:177-211, 1992.			
<i>M</i>	/	McBride, G., "New Molecule Under Study: Flt3 Ligand May Mobilize Dendritic Cells," <i>J. Nat'l Cancer Inst.</i> 89(17):1257, 1997.			
<i>M</i>	/	Pulendran, B. et al., "Developmental Pathways of Dendritic Cells in Vivo: Distinct Function, Phenotype, and Localization of Dendritic Cell Subsets in FLT3 Ligand-Treated Mice," <i>J. Immunol.</i> 159(5):2222-2231, 1997.			
<i>M</i>	/	Shurin, M. et al., "FLT3 Ligand Induces the Generation of Functionally Active Dendritic Cells in Mice," <i>Cell. Immunol.</i> 179(2):174-184, 1997.			
<i>M</i>	/	Chen, K. et al., "Antitumor Activity and Immunotherapeutic Properties of Flt3-Ligand in a Murine Breast Cancer Model," <i>Cancer Res.</i> 57(16):3511-3516, 1997.			
<i>M</i>	/	Strobl, H. et al., "flt3 Ligand in Cooperation with Transforming Growth Factor- β 1 Potentiates In Vitro Development of Langerhans-Type Dendritic Cells and Allows Single-Cell Dendritic Cell Cluster Formation Under Serum-Free Conditions," <i>Blood</i> , 90(4):1425-1434, 1997.			
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<i>M</i>	/	Lynch, D. et al., "Flt3 ligand induces tumor regression and antitumor immune responses <i>in vivo</i> ," <i>Nature Med.</i> 3(6):625-631, 1997.			
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<i>M</i> FEB 11 2000 U.S. PATENT & TRADEMARK OFFICE	Broxmeyer, H. et al., "Flt3 ligand stimulates/costimulates the growth of myeloid stem/progenitor cells," <i>Exp. Hematol.</i> 23:1121-1129, 1995.				
<i>M</i>	A. Porgador and E. Gilboa, "Bone Marrow-generated Dendritic Cells Pulsed with a Class I-Restricted Peptide are Potent Inducers of Cytotoxic T Lymphocytes," <i>J. Exp. Med.</i> 182:255-260, 1995.				
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<i>M</i>	Inaba, K. et al., "Dendritic Cell Progenitors Phagocytose Particulates, Including Bacillus Calmette-Guerin Organisms, And Sensitize Mice To Mycobacterial Antigens <i>In Vivo</i> ," <i>J. Exp. Med.</i> 178:479-488, 1993.				
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Med.</i> 180:83-93, 1994.</td> </tr> <tr> <td></td> <td>Winton, E. F. et al., "Recombinant Human (rh) FLT3 Ligand Plus rhGM-CSF or rhG-CSF Causes a Marked CD34⁺ Cell Mobilization to Blood in Rhesus Monkeys," ASH Abstract, December 1996.</td> </tr> <tr> <td><i>M</i></td> <td><input checked="" type="checkbox"/> F. Sallusto and A. Lanzavecchia, "Efficient Presentation of Soluble Antigen by Cultured Human Dendritic Cells is Maintained by Granulocyte/Macrophage Colony-stimulating Factor Plus Interleukin 4 and Downregulated by Tumor Necrosis Factor α," <i>J. Exp. Med.</i> 179:1109-1118, 1994.</td> </tr> <tr> <td><i>M</i></td> <td><input checked="" type="checkbox"/> Szabolcs, P. et al., "Expansion of Immunostimulatory Dendritic Cells Among the Myeloid Progeny of Human CD34⁺ Bone Marrow Precursors Cultured with c-kit Ligand, Granulocyte-Macrophage Colony-Stimulating Factor, and TNF-α," <i>J. Immunol.</i> 154:5851-5861, 1995.</td> </tr> <tr> <td><i>M</i></td> <td><input checked="" type="checkbox"/> Rosnet, O. et al., "Murine <i>Flt3</i>, a gene encoding a novel tyrosine kinase receptor of the PDGFR/CSF1R family," <i>Oncogene</i> 6:1641-1650, 1991.</td> </tr> <tr> <td><i>M</i></td> <td><input checked="" type="checkbox"/> S. Stengelin et al., "Isolation of cDNAs for two distinct human Fc receptors by ligand affinity cloning," <i>EMBO J.</i> 7(4):1053-1059, 1988</td> </tr> <tr> <td><i>M</i></td> <td><input checked="" type="checkbox"/> Debets, R. and Savelkoul, H. F. J. "Cytokine antagonists and their potential therapeutic use," <i>Immunol. Today</i> 15(10):455-458, 1994.</td> </tr> <tr> <td><i>M</i></td> <td><input checked="" type="checkbox"/> Small et al., "STK-1 is Expressed in a Subpopulation of Human Bone Marrow Enriched for CD34⁺ Progenitor/Stem Cells and in a Number of Leukemic Cell Lines," <i>Blood</i> 80, 296a; Abstract No. 1175, 1992.</td> </tr> <tr> <td><i>M</i></td> <td><input checked="" type="checkbox"/> Reid, D. L. et al., "Interactions Of Tumor Necrosis Factor With Granulocyte-Macrophage Colony-Stimulating Factor And Other Cytokines In The Regulation Of Dendritic Cell Growth In Vitro From Early Bipotent CD34⁺ Progenitors In Human Bone Marrow," <i>J. of Immunol.</i> 149(8):2681-2688, 1992.</td> </tr> <tr> <td colspan="2">EXAMINER</td> <td colspan="2"></td> <td colspan="2">DATE CONSIDERED <i>Gamza 2/4/00</i> <i>Gamza 2/5/00</i></td> </tr> <tr> <td colspan="6"> <p>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. 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Immunol.</i> 154:5851-5861, 1995.	<i>M</i>	<input checked="" type="checkbox"/> Rosnet, O. et al., "Murine <i>Flt3</i> , a gene encoding a novel tyrosine kinase receptor of the PDGFR/CSF1R family," <i>Oncogene</i> 6:1641-1650, 1991.	<i>M</i>	<input checked="" type="checkbox"/> S. Stengelin et al., "Isolation of cDNAs for two distinct human Fc receptors by ligand affinity cloning," <i>EMBO J.</i> 7(4):1053-1059, 1988	<i>M</i>	<input checked="" type="checkbox"/> Debets, R. and Savelkoul, H. F. J. "Cytokine antagonists and their potential therapeutic use," <i>Immunol. Today</i> 15(10):455-458, 1994.	<i>M</i>	<input checked="" type="checkbox"/> Small et al., "STK-1 is Expressed in a Subpopulation of Human Bone Marrow Enriched for CD34 ⁺ Progenitor/Stem Cells and in a Number of Leukemic Cell Lines," <i>Blood</i> 80, 296a; Abstract No. 1175, 1992.	<i>M</i>	<input checked="" type="checkbox"/> Reid, D. 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OFFICE				APPLICANT Brasel et al.	
				FILING DATE September 17, 1998	GROUP 1644
INFORMATION DISCLOSURE CITATION (<i>Supplemental Sheet</i>)					
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
 Thomson, A. W. et al., "Microchimerism, Dendritic Cell Progenitors and Transplantation Tolerance," <i>Stem Cells</i> 13:622-639, 1995.					
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✓ Chklovskaya, E. et al., "Increased Production of FLT3 Ligand in Leukemia Patients With Chemotherapy-Induced Bone Marrow Suppression," 1996 EHA Abstract Form, Second Meeting of the European Haematology Association, May 29-June 1, 1996.					
✓ Wodnar-Filipowicz, A. et al., "Tyrosine kinase receptors and their ligands in aplastic anemia," Manuscript, February 20, 1996.					
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✓ Whalen, R. G. et al., "DNA-Mediated Immunization to the Hepatitis B Surface Antigen: Potential Involvement of Interstitial Dendritic Cells," Abstract # C1-128, Keystone Conference, Taos, NM, March 1995.					
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<i>YR</i>		Alters, S. et al., "Characterization and Gene Modification of Dendritic Cells to be Used for Antigen Presentation, Abstract # C1-302, Keystone Conference, Taos, NM, March 1995.		
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